Nominee statements

David Morrison (BNL)
Gunther Roland (MIT)

Who am I and what am I doing here?

- Where have I been?
  - Frankfurt, MIT, CERN, MIT (2000-present)
- What have I worked on?
  - NA35, PHOBOS, NA49, PHOBOS (2000-2010), CMS (2005-present)
- Research experience
  - 2012- present CMS Heavy Ion publication committee board chair (*step down)
  - 2011 - present MIT Heavy Ion group leader (*continue)
  - 2009-2011 CMS Heavy Ion co-convener
  - 2007-2009 CMS Heavy-Ion trigger coordinator
  - 2002-2010 PHOBOS deputy spokesperson
  - 2001-2010 PHOBOS physics coordinator
  - 1998-2001 PHOBOS computing coordinator

(*if elected)

Who am I and what am I doing here?

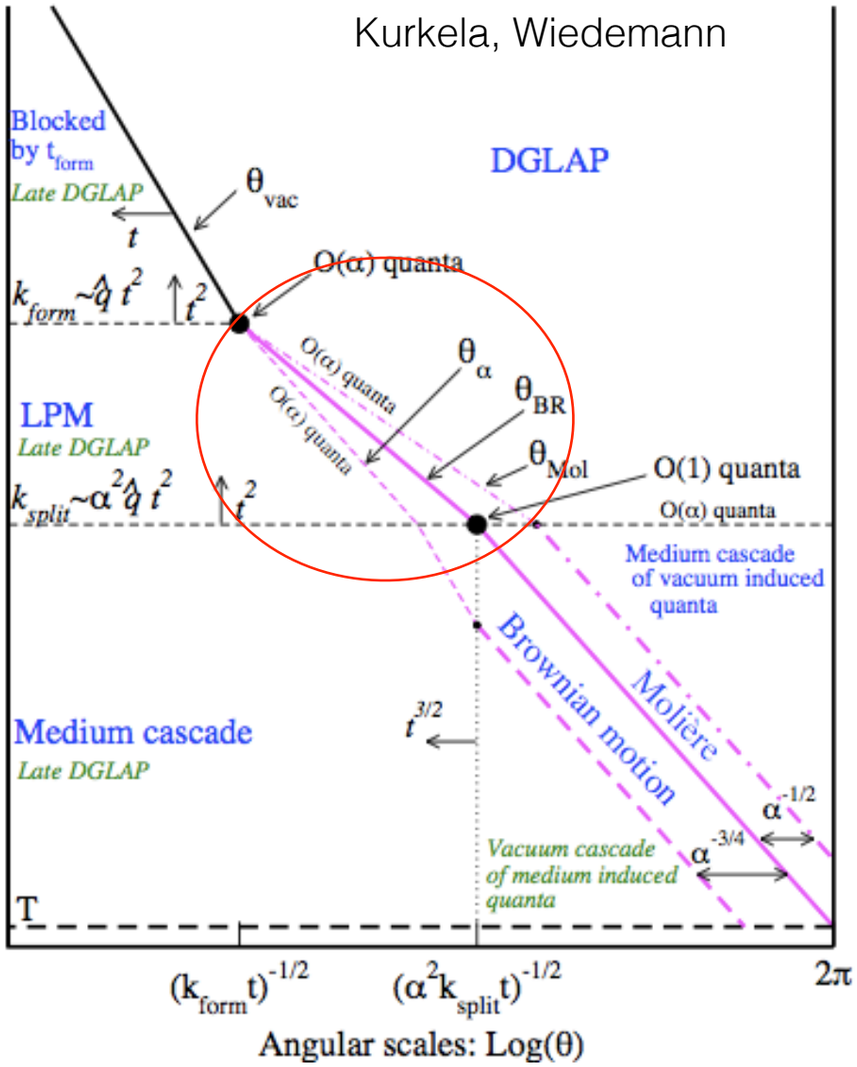
- Other recent activities
  - IAC ISMD 2015, 2016, SQM 2015, 2016, Jets at RHIC and LHC
  - Local organizer: IS2014 (Napa), IS2016 (Lisbon), HP 2016 (Wuhan), Lisbon Jet Workshop (2014)
  - Co-organizer: INT 15-2B (correlations + fluctuations…), National Nuclear Physics Summer School 2016, Nuclear Physics Education & Innovation town meeting
  - Writing committee member: Hot QCD 2015 White Paper, Hot QCD 2015 Town meeting summary
  - JET collaboration CMS contact
  - JETSCAPE collaboration member (proposal)

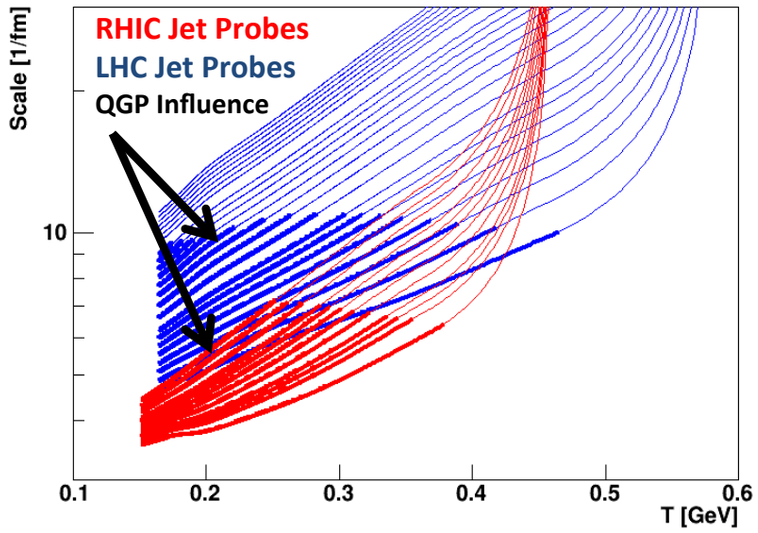
Who am I and **what am I doing here?**

There are two central goals of measurements planned at RHIC, as it completes its scientific mission, and at the LHC: **(1) Probe the inner workings of QGP by resolving its properties at shorter and shorter length scales. The complementarity of the two facilities is essential to this goal, as is a state-of-the-art jet detector at RHIC, called sPHENIX. (2) Map the phase diagram of QCD with experiments planned at RHIC.**

Our physics interests are endorsed in **bold face** in the NP long term plan. Need to use that for all it is worth!

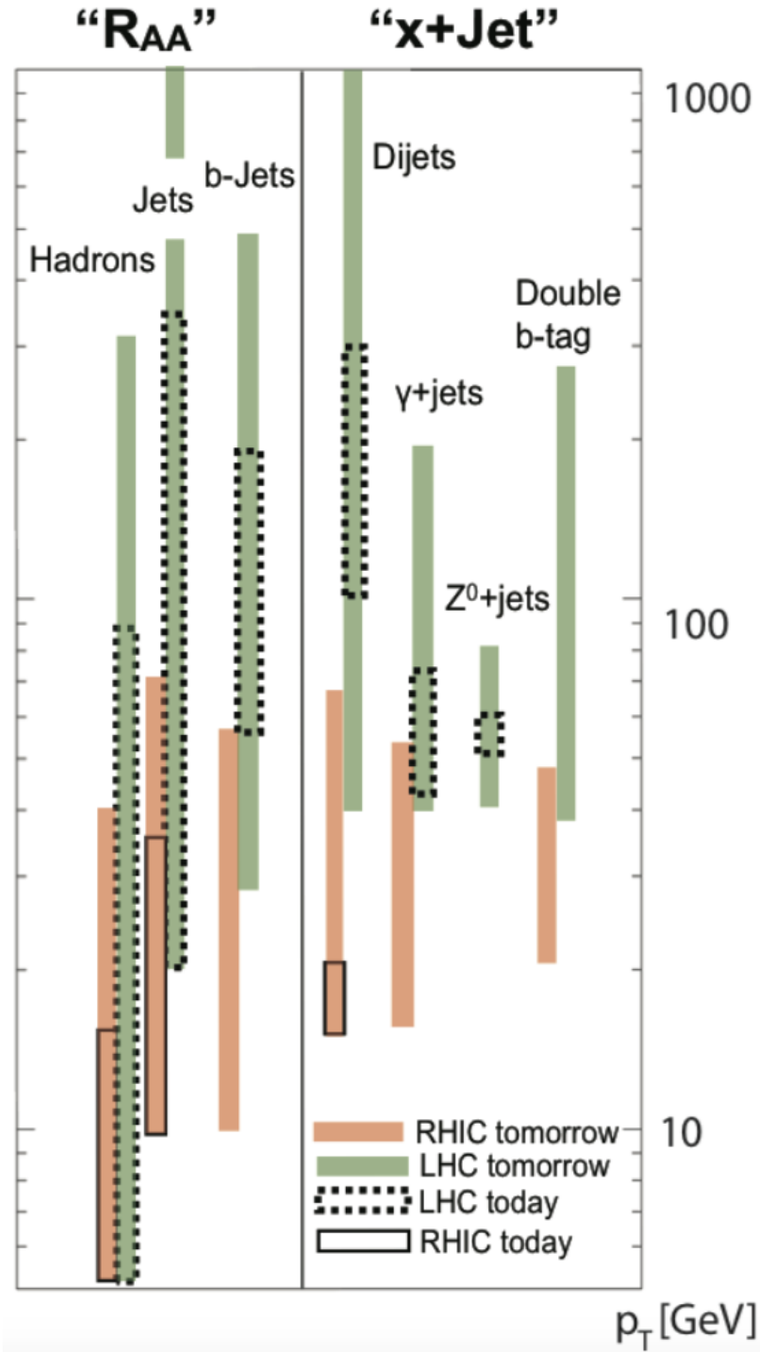
Force Multiplier: Jets at LHC **and** RHIC

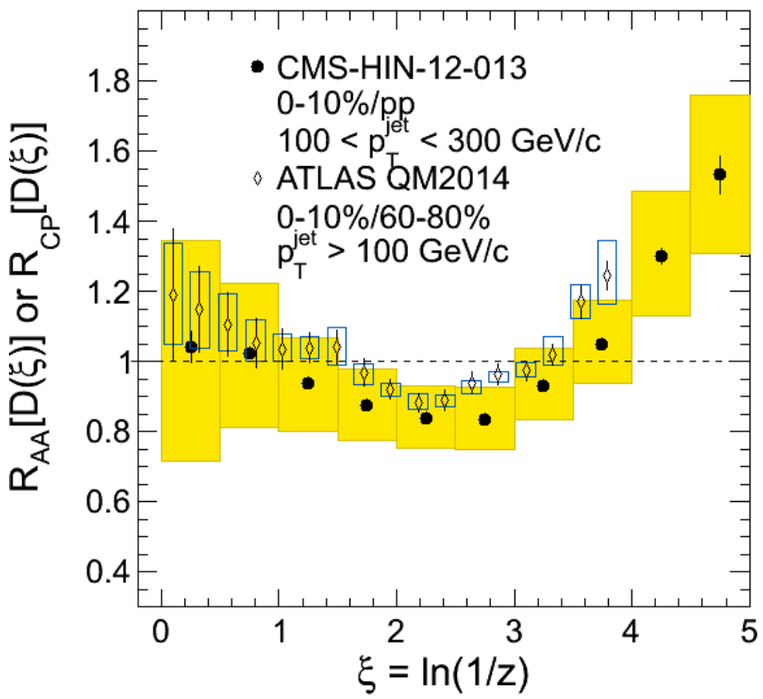




sPHENIX & LHC Run 2:

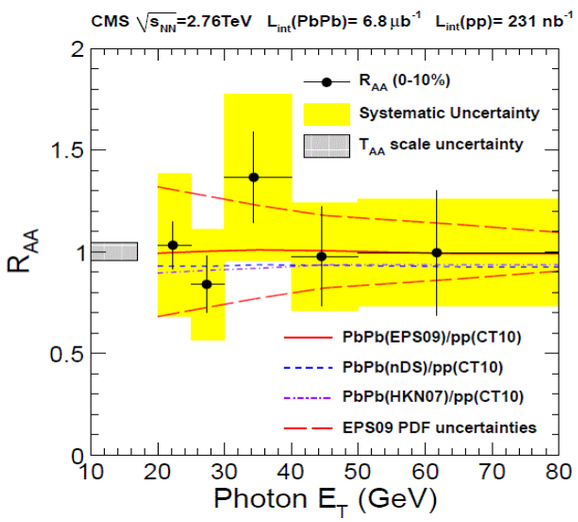
- Probe different trajectories of QGP evolution
- Overlap in observables/ kinematics



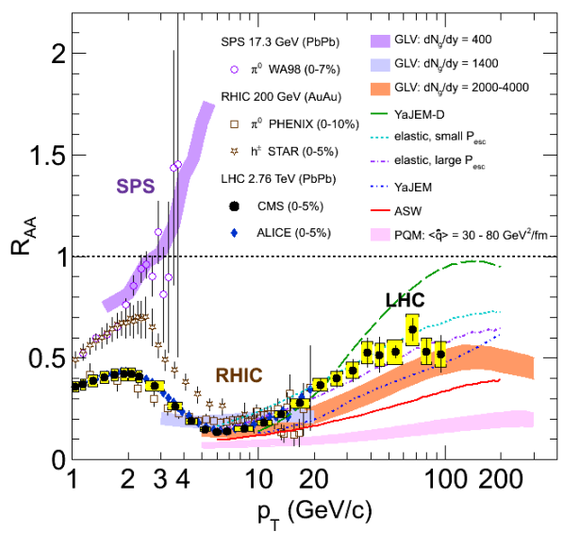


Who am I and **what am I doing here?**

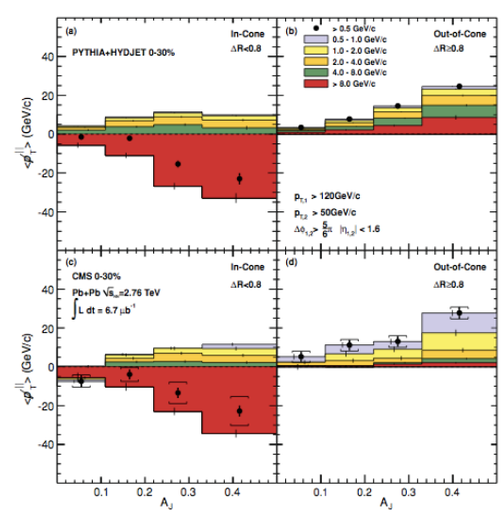
Photon R_{AA}



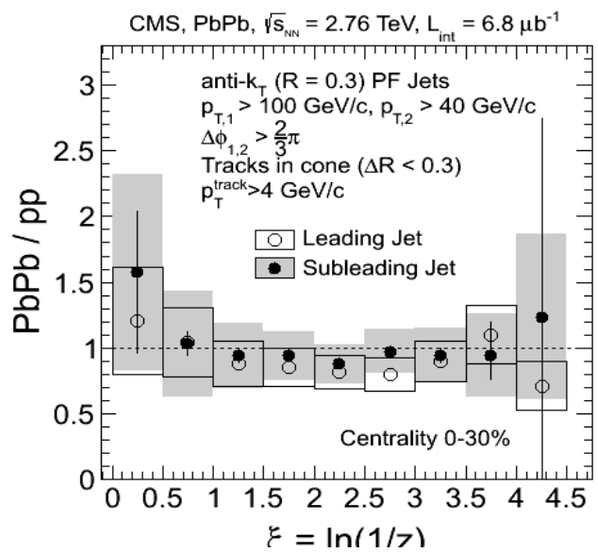
Hadron R_{AA}



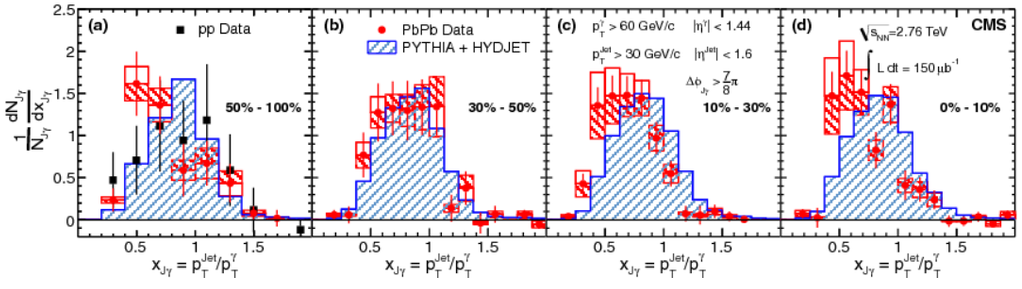
Jet-track MPT



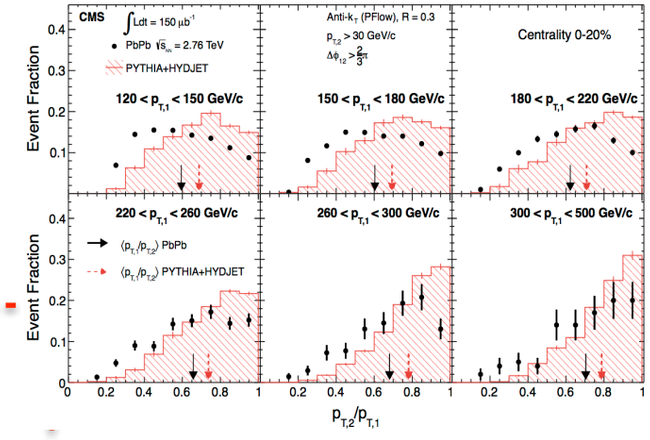
Jet Fragmentation Func's



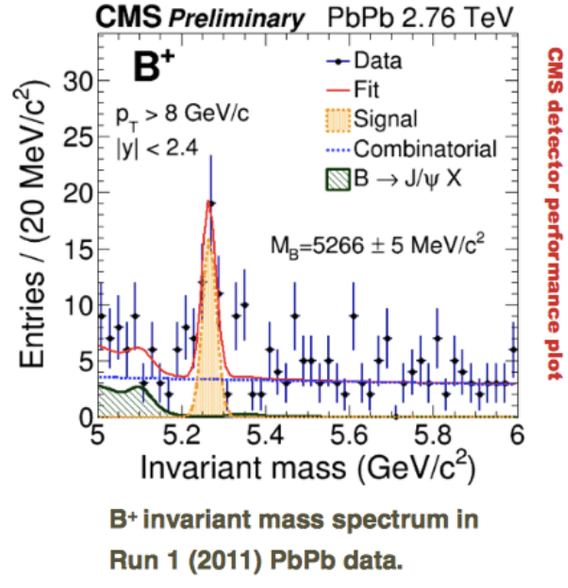
Photon-jet correlations



Dijet balance

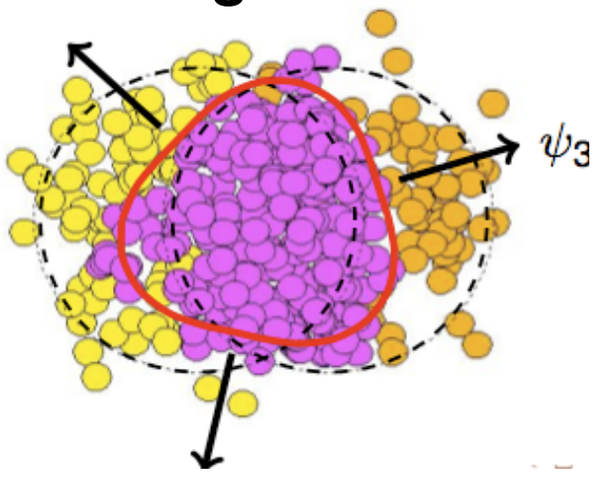


Heavy flavor (D, B)

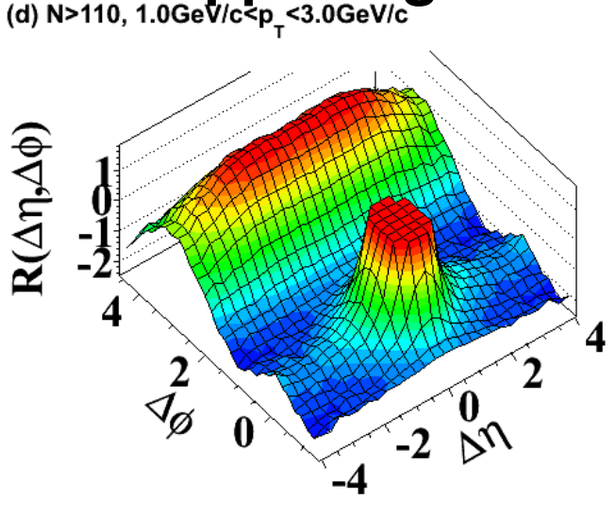


B$^+$ invariant mass spectrum in Run 1 (2011) PbPb data.

Triangular flow



pp "ridge"



Near complete overlap of recent work of MIT group and sPHENIX "core" program

Who am I and what am I doing here?

- Where have I been?
  - Berkeley, MIT, Tennessee, BNL (1997-present)
- What have I worked on?
  - E859, E910, WA98, PHENIX (1994-present)
- Research experience
  - 2012–two weeks from now PHENIX co-spokesperson with Jamie Nagle
  - 2011–2012 PHENIX deputy spokesperson
  - 2008–present BNL/PHENIX group leader (continue)
  - 2001–2008 PHENIX computing coordinator
  - 2000–2001 PHENIX global/hadron co-convener

sPHENIX related work

- Deeply involved in development of plans leading to successfully DOE reviewed sPHENIX science case

The PHENIX Experiment at RHIC

Decadal Plan 2011–2020

Brookhaven National Laboratory

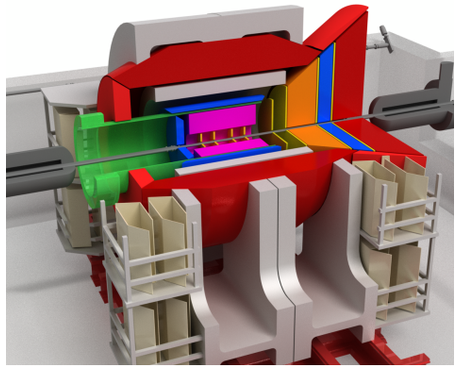
Relativistic Heavy Ion Collider

October, 2010

PHENIX

Spokesperson	Barbara Jacak *Stony Brook University*
Deputy Spokesperson	Jamie Nagle *University of Colorado*
Deputy Spokesperson	Yasuyuki Akiba *RIKEN Nishina Center for Accelerator-Based Science*
Operations Director	Ed O'Brien *Brookhaven National Laboratory*
Deputy Operations Director for Upgrades	Mike Leitch *Los Alamos National Laboratory*
Deputy Operations Director for Operations	John Haggerty *Brookhaven National Laboratory*

Concept for an Electron Ion Collider (EIC)
detector built around the BaBar solenoid

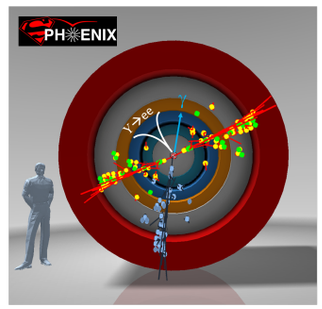


The PHENIX Collaboration
February 3, 2014

PHENIX

An Upgrade Proposal from the PHENIX Collaboration

Original: July 1, 2012
Updated: October 1, 2013
Updated: June 19, 2014
Updated: November 19, 2014



Why Co-Spokespeople?

- Combine different perspective, experience, connections and approaches
- Day-to-day presence at BNL and an independent, outside voice
- In-depth knowledge of sPHENIX collaboration, detector, history
- Connections with BNL sPHENIX group, project management, BNL management, accelerator
- University group/LHC perspective
- Broad experience with “sPHENIX physics” in real life
- Fresh perspective for establishing effective dialog of collaboration and BNL/project management

Priorities and thoughts

- Commitment to excellence: Detector, science and collaboration

- Establish more open and clear communication between collaboration and project and Lab – regular meetings with them

- Build and strengthen the collaboration – contact institutions to explore physics interests and potential role in project

- Precision tracking enables core sPHENIX physics – work toward having the tracker be incorporated into the project

- Core sPHENIX physics is highest priority – at the same time, commit to explore avenues to enable forward physics program

Priorities and thoughts cntd

- Enable all members of collaboration to fully contribute
  - Establish and maintain open communication between collaboration management and all members
  - Continue sPHENIX traditions that have contributed to making hard work fun; e.g. Workfests, T-Shirts, BBQ
  - Particular attention to needs of young members, small institutions and diversity
    - some mechanisms already in Bylaws
    - some good suggestions during IB discussion, i.e. Ombudsperson